

## UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address. COMMISSIONER OF PATENTS AND TRADEMARKS Washington, D.C. 20221 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/445,710	03/13/2000	HANNU JUHANI LEINO	32107	1287
116 7.	590 06/24/2002			
PEARNE & GORDON LLP 526 SUPERIOR AVENUE EAST SUITE 1200 CLEVELAND, OH 44114-1484		EXAMINER		
			ALVO, MARC S	
			ART UNIT	PAPER NUMBER
			1731	
			DATE MAILED: 06/24/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
	09/445,710	LEINO ET AL.			
Office Action Summary	Examiner	Art Unit			
	Steve Alvo	1731			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status					
1) Responsive to communication(s) filed on					
	s action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims					
4)⊠ Claim(s) <u>1-12</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-12</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) ☐ The specification is objected to by the Examiner					
10) ☐ The drawing(s) filed on is/are: a) ☐ accep					
Applicant may not request that any objection to the					
11) ☐ The proposed drawing correction filed on is: a) ☐ approved b) ☐ disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) Notice of Informal P	(PTO-413) Paper No(s) atent Application (PTO-152)			

Art Unit: 1731

The action of March 20, 2002 was improperly made final. The final rejection is withdrawn and the following action given:

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

Page 1

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-8 and 10-12 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over OSTBERG et al ("Use of Carbon Dioxide In the Production of Sulphate Pulp").

See page 515, first paragraph for adding alkali, e.g. sodium hydroxide, to the pulp to adjust the temperature in combination with carbon dioxide to buffer the pH to a pH of 8.0. See page 512, second paragraph for treating bleached or unbleached sulphate pulp. See page 509,

Application/Control Number: 09/445,710

Art Unit: 1731

middle of page for "CO2 gas" dissolved. If the charge of alkali is not an aqueous solution of sodium hydroxide then such would have been obvious as aqueous solutions of sodium hydroxide are commonly used in the treatment as pulp to raise the pH. The term "intended to contain calcium carbonate filler" in claim 8, is not a positive limitation.

Claims 1-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over OSTBERG et al in view of G.B. Patent 815,527.

OSTBERG et al teaches adding alkali and carbon dioxide to counter each other's pH changing effect. See page 515, first paragraph for adding alkali, e.g. sodium hydroxide, to the pulp to adjust the temperature in combination with carbon dioxide to buffer the pH to a pH of 8.0. See page 512, second paragraph for treating bleached or unbleached sulphate pulp. See page 509, middle of page for CO2 gas dissolved. It would have been obvious to that the alkali of OSTBERG et al could have been an aqueous solution of sodium hydroxide as such is taught by G.B. Patent 815,527. G.B. Patent 815,527 further teaches that the sodium hydroxide could be added prior to the carbon dioxide (page 2, lines 35-41). The term "intended to contain calcium earbonate filler"in claim 8, is not a positive limitation. Claim 9 is rejected, as the use of pipes to add chemicals is well known in the papermaking art.

Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over OSTBERG et al with or without G.B. Patent 815,527 as applied to claim 1 above, and further in view of ADMITTED PRIOR ART (specification, page 1, lines 6-11).

The ADMITTED PRIOR ART teaches that it is known to neutralize (pH 7-8.5) the pulp before adding calcium carbonate as a filler. It would have been obvious to one of ordinary skill in the art that the neutralized pulp of OSTBERG et al and/or G.B. Patent 815,527 could have the

CONTRACTOR OF THE PARTY OF THE

Application/Control Number: 09/445,710

Art Unit: 1731

calcium carbonate of the ADMITTED PRIOR ART added to it as it is at the proper pH for calcium carbonate filler.

The argument that OSTBERG et al does not teach adding CO2 in combination with alkali metal hydroxide is not convincing as OSTBERG et al teaches (pages 512-513) adding both CO2 and sodium hydroxide (charge of alkali). Such addition of sodium hydroxide and CO2 reads on the claimed "adding thereto a combination of an alkali metal hydroxide feed and a carbon dioxide feed". The claimed feeds of (1) CO2 and (2) alkali metal hydroxide do not define over the combination of feeds claimed by Applicant.

The argument that OSTBERG et al does not control the pH throughout the paper making is not convincing. The term paper making has not been defined. OSTBERG et al teaches buffering the various points in the paper making process. The instant "papermaking" reads on any of the paper making stages of OSTBERG et al. The instant paper making does not include all paper making stages, e.g. chipping wood into chips, and can read on any single paper making stage.

The argument that the present invention adds alkali metal hydroxide and a carbon dioxide regardless of the pulp suspension's initial pH is not convincing as the claimed pH does not differ from the pH of OSTBERG et al. For example, claim 2 calls for adjusting the pH to a pH of 7 to 9. The buffering pH of 8 disclosed by OSTBERG et al is within the claimed 7 to 9. Applicant has not claimed or disclosed an initial pH that differs from the initial pH of OSTBERG et al.

When filing an "Official" FAX in Group 1730, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file. The "Official" FAX phone numbers for this TC 1700 are:

Application/Control Number: 09/445,710 Page 4

Art Unit: 1731

Non-Final Fax: (703) 872-9310 After-Final FAX: (703) 872-9311.

When filing an "Unofficial" FAX in Group 1730, please indicate in the Header (upper right) "Unofficial" for Draft Documents and other Communications with the PTO that are not for entry into the file of the application. This will expedite processing of your papers. The "Unofficial" FAX phone number for this Art Unit (1731) is (703) 305-7115.

Any inquiry concerning this communication or earlier communications from the **primary** examiner should be directed to Steve Alvo whose telephone number is (703) 308-2048. The Examiner can normally be reached on Monday - Friday from 6:00 AM - 2:30 PM (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Steve Griffin, can be reached on 703-308-1164.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the **Group receptionist** whose telephone number is **703-308-0661**.

The Customer Services Center for Technology Center 1700 (703-306-5665) shall provide the following service assistance to external and internal customers in the areas listed below.

## Services provided:

Patent Application Filing Receipts
Missing References
Information regarding When Action can be Expected
Lost/Misplaced/Requested Application retrieval
Retrieval from PTO Publication Branch
Retrieval from non-Publication Branch
Status Queries (written or oral)
Paper Matching Queries
Certificates of Correction.
Printer Waiting

The Customer Service Office, TC 1700, is located in CP3-8-D13, and is open to receive requests for service in person, by phone (703) 306-5665, or E-mail "Customer Service 1700" from 8:30 am-5:00 pm each business day. The Customer Services Center is part of the Special Programs Office of TC 1700

Application/Control Number: 09/445,710

Art Unit: 1731

Page 5

and will be staffed by the Technical Information Specialists who will serve as Customer Service

Representatives (CSR).

MSA 6/21/02

PRIMARY EXAMINER
ART UNIT 1731